



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁷ : C07C 41/09, 41/50, 1/20</p>	<p>A1</p>	<p>(11) International Publication Number: WO 00/51957 (43) International Publication Date: 8 September 2000 (08.09.00)</p>
<p>(21) International Application Number: PCT/GB00/00673 (22) International Filing Date: 24 February 2000 (24.02.00) (30) Priority Data: 9904926.4 ✓ 4 March 1999 (04.03.99) GB (71) Applicants (for all designated States except US): THOMAS SWAN & CO. LTD. [GB/GB]; Crookhall, Consett, County Durham DH8 7ND (GB). DEGUSSA-HÜLS AG [DE/DE]; Rodenbacher Chaussee 4, D-63457 Hanau (DE). (72) Inventors; and (75) Inventors/Applicants (for US only): POLIAKOFF, Martyn [GB/GB]; Nottingham University; Nottingham NG7 2RD (GB). GRAY, William, Keith [GB/GB]; Nottingham University; Nottingham NG7 2RD (GB). SWAN, Thomas, Macklyn [GB/GB]; Thomas Swan & Co. Ltd., Crookhall, Consett, County Durham DH8 7ND (GB). ROSS, Stephen, Keith [GB/GB]; Thomas Swan & Co. Ltd., Crookhall, Consett, County Durham DH8 7ND (GB). WIELAND, Stefan [DE/DE]; Degussa-Hüls AG, Weissfrauenstrasse 9, D-60311 Frankfurt (DE). ROEDER, Stefan [DE/DE]; Degussa-Hüls AG, Weissfrauenstrasse 9, D-60311 Frankfurt (DE).</p>		<p>(74) Agent: GIBBS, Christopher, Stephen; Haseltine Lake & Co., Imperial House, 15-19 Kingsway, London WC2B 6UD (GB). (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published With international search report.</p>
<p>(54) Title: ACID-CATALYSED REACTIONS</p> <p>(57) Abstract</p> <p>The present invention relates to acid-catalysed reactions of alcohols to produce ethers, acetals, ketals or alkenes. The reactions are carried out in the presence of a heterogenous catalyst under near-GB0000672 or supercritical conditions of temperature and pressure. The reactions of the present invention have the benefit that improved yields and/or selectivities may be obtained. In some cases, products which are not readily available by conventional acid-catalysed reactions of alcohols may be obtained.</p>		